



Big Book of Ideas Engineering Safety Strategies

October 2018

VISION ZERO 
Zero fatalities. Zero excuses.



Rural Curves

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Zero fatalities. Zero excuses.

Chevrons

Crash Reduction Factor

- 20% to 30%

Typical Installation Costs

- \$3,960 per curve



Delineators

Crash Reduction Factor

- 18% to 34% non-intersection, head-on, run-off-road, sideswipe, nighttime crash types

Typical Installation Costs

- \$500 per curve



High Friction Surface Treatment

Crash Reduction Factor

- All crash types - 24%
- Wet road crash type – 52%

Typical Installation Costs

- \$25 to \$35 per square yard



Dynamic Curve Signing

Crash Reduction Factor

- Not Available

Typical Installation Costs

- \$50,000 per curve



Lighting

Crash Reduction Factor

- See Rural Intersections

Typical Installation Costs

- See Rural Intersections



Clear Zone Maintenance/ Enhancements

Crash Reduction Factor

- Fatal, serious, & minor injury crashes: increase of 28% to decrease of 18%

Typical Installation Costs

- \$10,000 to \$250,000 per curve



Reconstruct (TT to a Single T Intersection)

Crash Reduction Factor

- Not Available

Typical Installation Costs

- \$150,000 to \$300,000 per curve

